

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: IRiS

Report Number: P1334090

Luminaire Tested: P3A02R159730DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1334090
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-59)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A02R159730DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R15 optic, 3000K CCT AND, 97CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

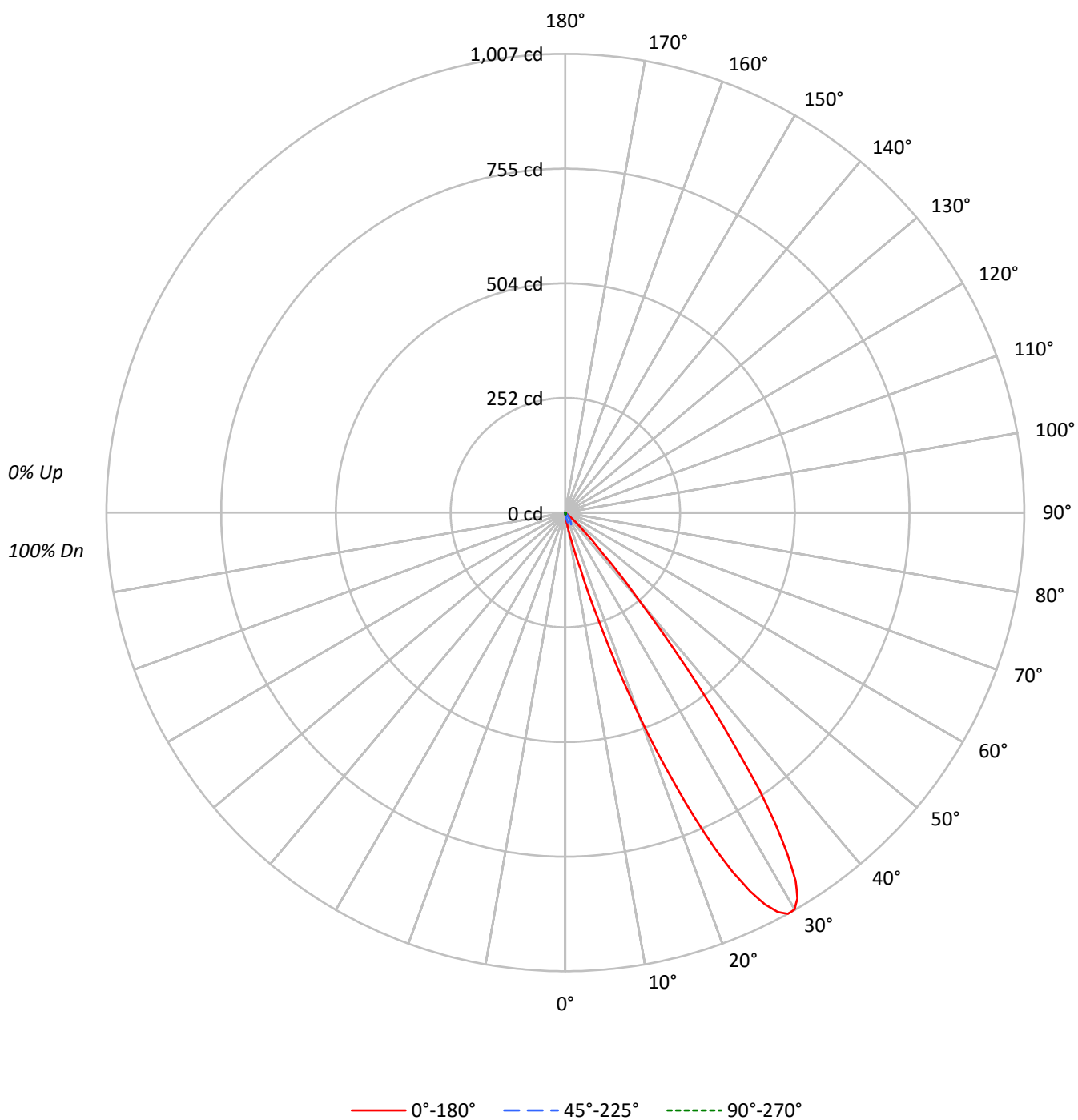
Lumens per Lamp: N/A
Luminaire Lumens: 109.9 lumens
Efficiency: N/A
Efficacy: 30.5 lumens/watt
Spacing Criteria (0/90/45): 2.35 / 0.49 / 1.26
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 3.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	100
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	93	93	92
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	85	85	83
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	77	77	75
4	93	84	78	73	91	83	77	72	81	75	71	79	74	71	77	73	70	70	70	68
5	87	77	70	65	85	76	70	65	74	69	64	72	68	64	71	66	63	63	63	61
6	81	71	64	59	80	70	63	58	68	62	58	67	61	57	65	61	57	57	57	55
7	76	65	58	53	74	64	57	53	63	57	52	61	56	52	60	55	52	52	52	50
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	47	47	45
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	51	46	42	42	42	41
10	62	51	44	39	61	50	43	39	49	43	39	48	43	39	47	42	39	39	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	789	789	789	789	789
5°	1717	1277	748	396	330
10°	7615	2405	601	156	111
15°	28831	5562	409	68	45
20°	110890	7841	257	23	23
25°	210859	7355	121	0	0
30°	254723	5925	51	0	0
35°	198681	4042	27	0	0
40°	72507	2004	29	0	29
45°	18607	589	31	0	62
50°	3138	68	34	34	102
55°	421	0	76	115	191
60°	44	44	132	175	263
65°	52	52	208	259	311
70°	64	64	256	256	321
75°	85	85	339	254	339
80°	0	126	379	253	379
85°	0	252	755	252	252

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 18607 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.5	0.5
10°-20°	8.4	7.7
20°-30°	46.7	42.5
30°-40°	45.2	41.1
40°-50°	7.9	7.1
50°-60°	0.6	0.5
60°-70°	0.3	0.3
70°-80°	0.3	0.2
80°-90°	0.1	0.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	55.7	50.6
0°-40°	100.8	91.7
0°-60°	109.2	99.4
0°-90°	109.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	109.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4	4	4	4	4	
5°	8	6	3	2	2	2
15°	127	24	2	0	0	57
25°	872	30	0	0	0	390
35°	742	15	0	0	0	427
45°	60	2	0	0	0	64
55°	1	0	0	0	0	2
65°	0	0	0	0	1	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
2.5°	5.4	5.1	5.2	5.2	5.2	5.2	5.2	5.0	5.0	5.1	4.6
5°	7.8	7.8	7.7	7.8	7.8	7.7	7.5	7.4	7.4	7.2	5.8
7.5°	15.6	15.4	15.4	15.2	14.1	13.8	13.6	13.1	12.1	11.9	7.5
10°	34.2	34.3	33.6	32.6	32.5	30.9	30.4	29.4	27.6	25.8	10.8
12.5°	62.2	60.8	59.0	59.1	56.0	54.9	52.4	49.8	47.0	44.1	17.8
15°	127.0	123.1	125.4	119.6	113.1	105.7	98.2	88.8	80.8	72.2	24.5
17.5°	267.5	271.4	264.8	240.1	224.9	207.0	181.9	157.6	136.9	120.2	30.0
20°	475.2	480.9	458.7	437.2	400.3	360.1	318.1	270.6	225.1	185.8	33.6
21°	562.0	558.6	549.5	515.0	472.4	425.8	374.4	322.0	266.9	215.7	33.9
22°	645.9	647.5	626.3	590.2	545.9	494.2	431.5	366.8	307.4	240.1	33.4
23°	729.4	734.6	706.5	672.7	617.0	558.7	486.1	416.2	342.8	268.0	32.3
24°	806.8	803.3	784.3	741.7	682.1	613.9	538.5	453.8	371.9	291.9	31.5
25°	871.5	871.1	841.4	799.9	731.8	656.1	573.1	484.5	396.9	308.1	30.4
26°	924.5	915.8	892.4	841.9	774.6	694.8	601.5	506.9	410.9	316.2	29.3
27°	965.4	959.2	927.7	875.2	804.9	716.6	619.7	518.0	417.3	318.9	27.9
28°	992.9	986.1	952.6	898.5	821.6	730.3	629.3	522.7	417.3	316.3	26.6
29°	1007.1	997.9	964.5	906.5	825.4	731.9	626.9	518.1	410.8	308.4	25.1
30°	1006.0	994.6	959.6	899.2	814.0	718.7	613.8	501.5	396.0	296.6	23.4
31°	988.7	975.9	936.8	874.6	790.3	693.9	588.9	479.3	375.8	281.3	21.7
32°	953.5	937.2	899.1	837.2	753.9	656.8	552.9	444.9	345.5	258.9	19.9
33°	896.1	879.8	838.9	780.8	704.7	609.7	505.1	408.0	311.1	232.3	18.4
34°	824.3	809.4	774.2	715.6	642.7	550.1	450.1	357.0	275.3	205.9	16.8
35°	742.2	718.3	686.4	640.1	568.9	475.8	390.7	309.5	238.5	178.2	15.1
36°	631.0	635.3	601.5	544.7	485.8	412.8	331.1	258.0	199.5	151.8	13.6
37°	532.4	525.7	504.2	460.3	409.0	336.5	277.5	218.7	167.8	128.4	12.0
38°	429.5	431.0	409.9	376.2	325.3	276.7	223.3	179.7	140.4	109.2	10.5
39°	336.2	335.0	329.4	298.1	252.0	220.1	180.9	148.9	117.0	92.1	8.9
40°	253.3	255.2	241.9	223.1	196.2	170.0	144.1	118.8	96.7	77.7	7.0
42.5°	123.2	126.2	117.4	112.6	100.7	90.4	76.3	62.3	53.0	45.8	3.1
45°	60.0	58.3	57.6	55.2	52.4	46.9	41.5	35.6	31.1	26.9	1.9
47.5°	30.7	29.9	29.9	28.9	27.9	26.1	23.4	21.5	19.4	16.7	0.7
50°	9.2	9.1	9.0	9.1	8.8	9.1	9.3	9.4	8.6	8.5	0.2
52.5°	3.6	3.7	3.6	4.0	4.0	3.9	4.0	3.9	3.7	3.3	0.0
55°	1.1	1.1	1.1	1.1	1.1	1.1	1.2	1.3	1.2	1.3	0.0
57.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0
60°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1
62.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
65°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
67.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
70°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
72.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
75°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1



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CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	3.6	3.6	3.6	3.6	3.6	3.6
2.5°	4.3	3.7	3.1	2.6	2.4	2.2
5°	4.6	3.4	2.4	1.8	1.6	1.5
7.5°	4.9	3.1	1.8	1.3	1.0	0.9
10°	5.1	2.7	1.4	0.7	0.5	0.5
12.5°	5.1	2.1	1.0	0.4	0.3	0.3
15°	5.0	1.8	0.6	0.3	0.2	0.2
17.5°	4.9	1.4	0.4	0.2	0.1	0.2
20°	4.6	1.1	0.2	0.1	0.1	0.1
21°	4.5	1.0	0.2	0.1	0.1	0.1
22°	4.3	0.9	0.1	0.0	0.1	0.1
23°	4.1	0.6	0.1	0.0	0.0	0.0
24°	3.7	0.5	0.1	0.0	0.0	0.0
25°	3.5	0.5	0.1	0.0	0.0	0.0
26°	3.3	0.3	0.0	0.0	0.0	0.0
27°	3.0	0.2	0.0	0.0	0.0	0.0
28°	2.8	0.2	0.0	0.0	0.0	0.0
29°	2.5	0.2	0.0	0.0	0.0	0.0
30°	2.1	0.2	0.0	0.0	0.0	0.0
31°	1.7	0.1	0.0	0.0	0.0	0.0
32°	1.4	0.1	0.0	0.0	0.0	0.0
33°	1.0	0.1	0.0	0.0	0.0	0.0
34°	0.6	0.1	0.0	0.0	0.0	0.0
35°	0.5	0.1	0.0	0.0	0.0	0.0
36°	0.3	0.1	0.0	0.0	0.0	0.1
37°	0.3	0.1	0.0	0.0	0.0	0.1
38°	0.2	0.1	0.0	0.0	0.0	0.1
39°	0.1	0.1	0.0	0.0	0.0	0.1
40°	0.1	0.1	0.0	0.0	0.0	0.1
42.5°	0.0	0.1	0.0	0.0	0.1	0.2
45°	0.0	0.1	0.0	0.0	0.1	0.2
47.5°	0.0	0.1	0.0	0.0	0.2	0.2
50°	0.0	0.1	0.1	0.1	0.2	0.3
52.5°	0.0	0.2	0.1	0.2	0.3	0.4
55°	0.1	0.2	0.2	0.3	0.4	0.5
57.5°	0.1	0.3	0.3	0.4	0.5	0.5
60°	0.2	0.3	0.4	0.4	0.6	0.6
62.5°	0.2	0.4	0.4	0.4	0.6	0.6
65°	0.2	0.4	0.4	0.5	0.6	0.6
67.5°	0.2	0.4	0.4	0.4	0.5	0.6
70°	0.2	0.4	0.3	0.4	0.5	0.5
72.5°	0.2	0.4	0.3	0.3	0.4	0.5
75°	0.2	0.4	0.3	0.3	0.4	0.4
77.5°	0.2	0.3	0.3	0.2	0.3	0.3
80°	0.2	0.3	0.2	0.2	0.3	0.3



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.2	0.3	0.2	0.1	0.2	0.2
85°	0.2	0.3	0.2	0.1	0.1	0.1
87.5°	0.2	0.3	0.1	0.0	0.0	0.1
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)